



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

WinDoor, Inc.

7500 Amsterdam Drive

Orlando, FL 32832

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "9040" Aluminum Double Hung Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 08-00946, titled "Series 9040 Thermally Broken Aluminum Double Hung - 60" x 99" Large Missile Impact, sheets 1 through 10 of 10, dated 03/17/10 with revision A dated 10/14/10, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 10-0719.12 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



*Handwritten signature and date: 3/26/12*

NOA No. 12-0130.20

Expiration Date: January 27, 2016

Approval Date: April 05, 2012

Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-00946**, titled "Series 9040 Thermally Broken Aluminum Double Hung – 60" x 99" Large Missile Impact, sheets 1 through 10 of 10, dated 03/17/10 with revision A dated 10/14/10, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with installation diagram of an aluminum double hung window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3646-1**, Specimens 1, 2, 3 and 4, dated 07/15/09 and revised on 03/30/10, signed and sealed by Gerald J. Ferrara, P.E. *(Submitted under previous NOA#10-0719.12)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 3/31/10, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies with ASTM E1300-04 *(Submitted under NOA#10-0719.12)*

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

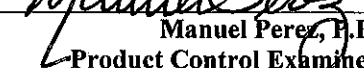
1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

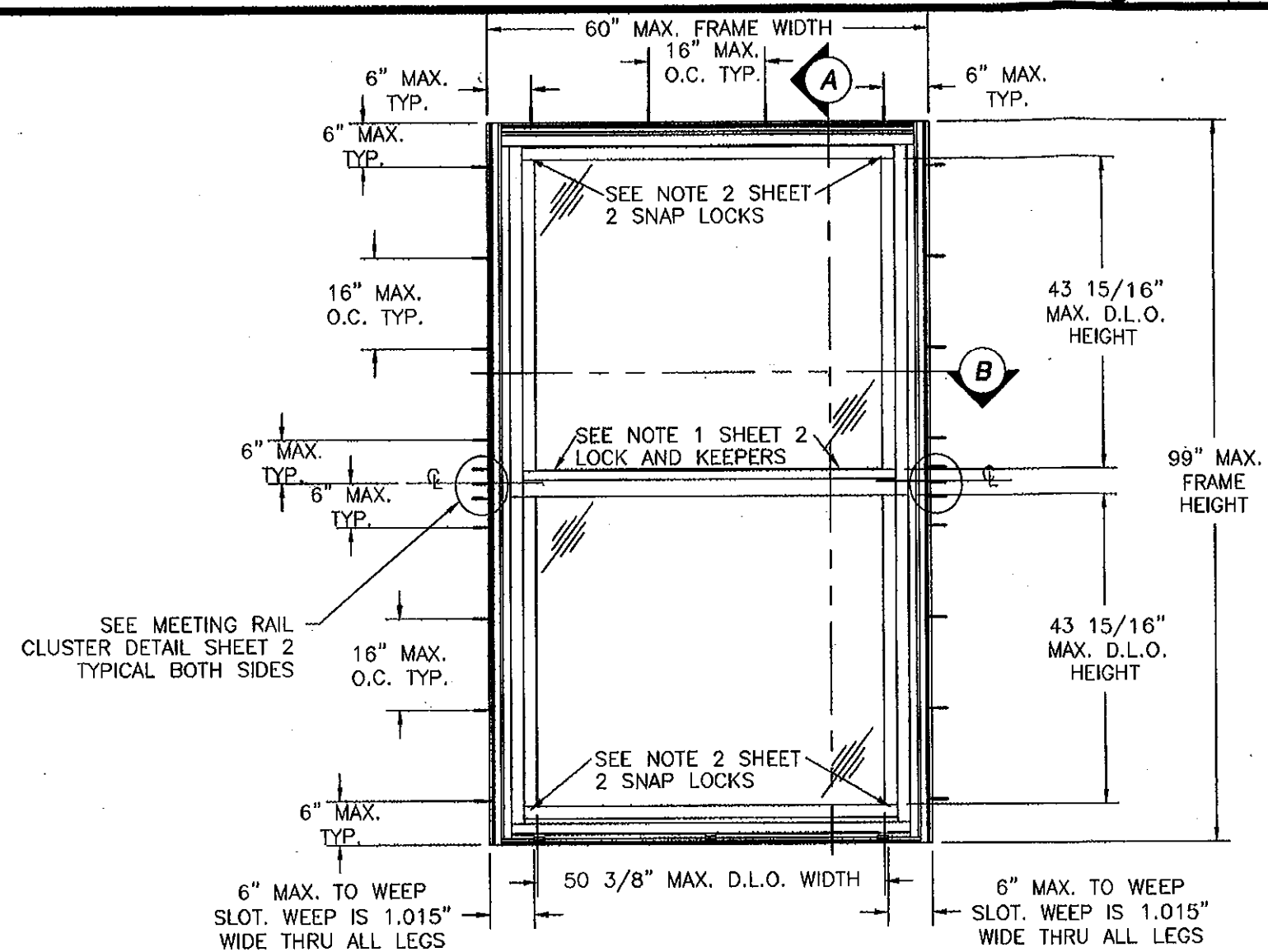
**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated January 19, 2012, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory compliance letter for Test Report No. **NCTL-210-3646-1**, issued by National Certified Testing Laboratories, dated 04/07/10, signed and sealed by Gerald J. Ferrara, P.E. *(Submitted under previous NOA#10-0719.12)*

**G. OTHER**

1. Notice of Acceptance No. **10-0719.12**, issued to WinDoor, Inc. for their Series "9040" Aluminum Double Hung Window – L.M.I., approved on 01/27/11 and expiring on 01/27/16.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0130.20  
Expiration Date: January 27, 2016  
Approval Date: April 05, 2012



**SERIES 9040 THERMALLY BROKEN ALUMINUM  
DOUBLE HUNG EQUAL VENT**

**EXTERIOR VIEW**  
 MAXIMUM UPPER SASH SIZE: 56 7/16" x 50 1/8"  
 MAXIMUM LOWER SASH SIZE: 56 7/16" x 50 5/16"

DESIGN PRESSURE RATING	IMPACT RATING
+ 120.0 PSF - 150.0 PSF	LARGE MISSILE IMPACT

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION, ANCHORING LAYOUT AND NOTES
2	ELEVATIONS AND ANCHORING LAYOUTS
3 - 4	BILL OF MATERIALS AND GLAZING DETAILS
5	CROSS SECTIONS
6 - 8	INSTALLATION DETAILS
9 - 10	COMPONENTS

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 12-0130-20  
 Expiration Date JAN. 27, 2016  
 By *Marcus Perez*  
 Miami Dade Product Control

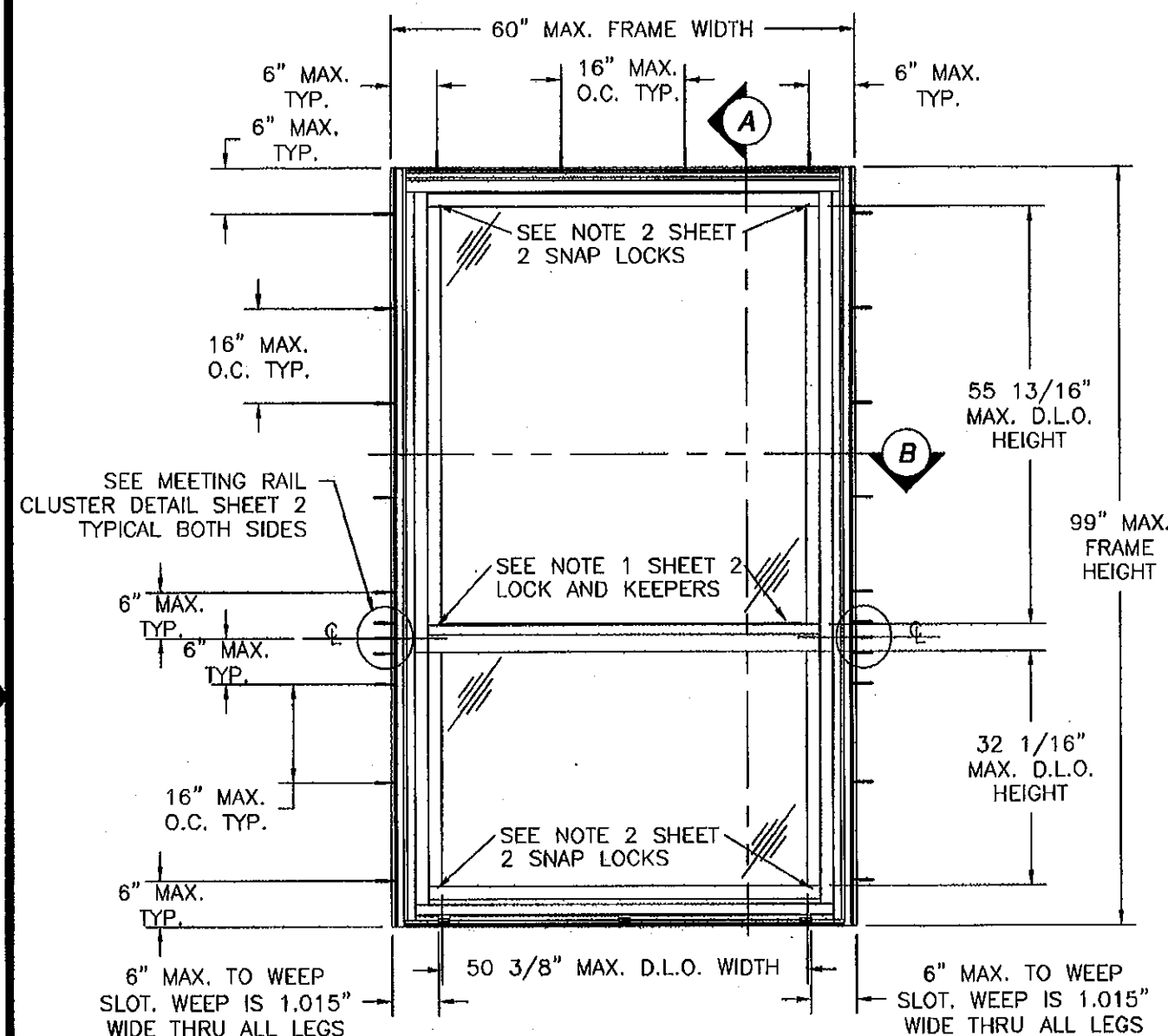
Approved as complying with the  
 Florida Building Code  
 Date: JAN. 27, 2016  
 NOAH 18-0714-12  
 Miami Dade Product Control  
 Division  
 By *Marcus Perez*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.

- NOTES:
- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
  - 2) WOOD FRAMING, 2X BACKED STEEL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
  - 3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
  - 4) FRAME MATERIAL: EXTRUDED ALUMINUM 6063-T6 .075" THICK. SASH MATERIAL: EXTRUDED ALUMINUM 6063-T6 .070" THICK.
  - 5) UNITS MUST BE GLAZED PER ASTM E1300. SEE SHEET 3 FOR GLAZING DETAILS.
  - 6) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
  - 7) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
  - 8) FOR ANCHORING INTO MASONRY USE 1/4" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
  - 9) FOR ANCHORING INTO WOOD FRAMING OR DOUBLE 2X BUCK USE #14 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 4D = 4x .216" = .864", 7/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
  - 10) FOR ANCHORING INTO 2X BACKED 16GA. STEEL FRAMING USE #14 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 4D = 4x .216" = .864", 7/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
  - 11) ALL FASTENERS USED ARE IN DOUBLE ROW CONDITION, SPACED AT A MINIMUM OF 2 1/2" APART. NO FASTENERS ARE REQUIRED AT SILL. ALL FASTENERS TO BE CORROSION RESISTANT.
  - 12) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
    - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
    - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
    - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
    - D. STEEL FRAMING: 2X BACKED 16GA. (.063" MIN.) STEEL FRAMING.

<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
SERIES 9040 THERMALLY BROKEN ALUMINUM DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT ELEVATION, ANCHORING LAYOUT AND NOTES			
DRAWN: TJH	DWG NO. 08-00946	REV A	<i>Luis R. Lomas</i> 11/04/10 Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 03/17/10	SHEET 1 OF 10	

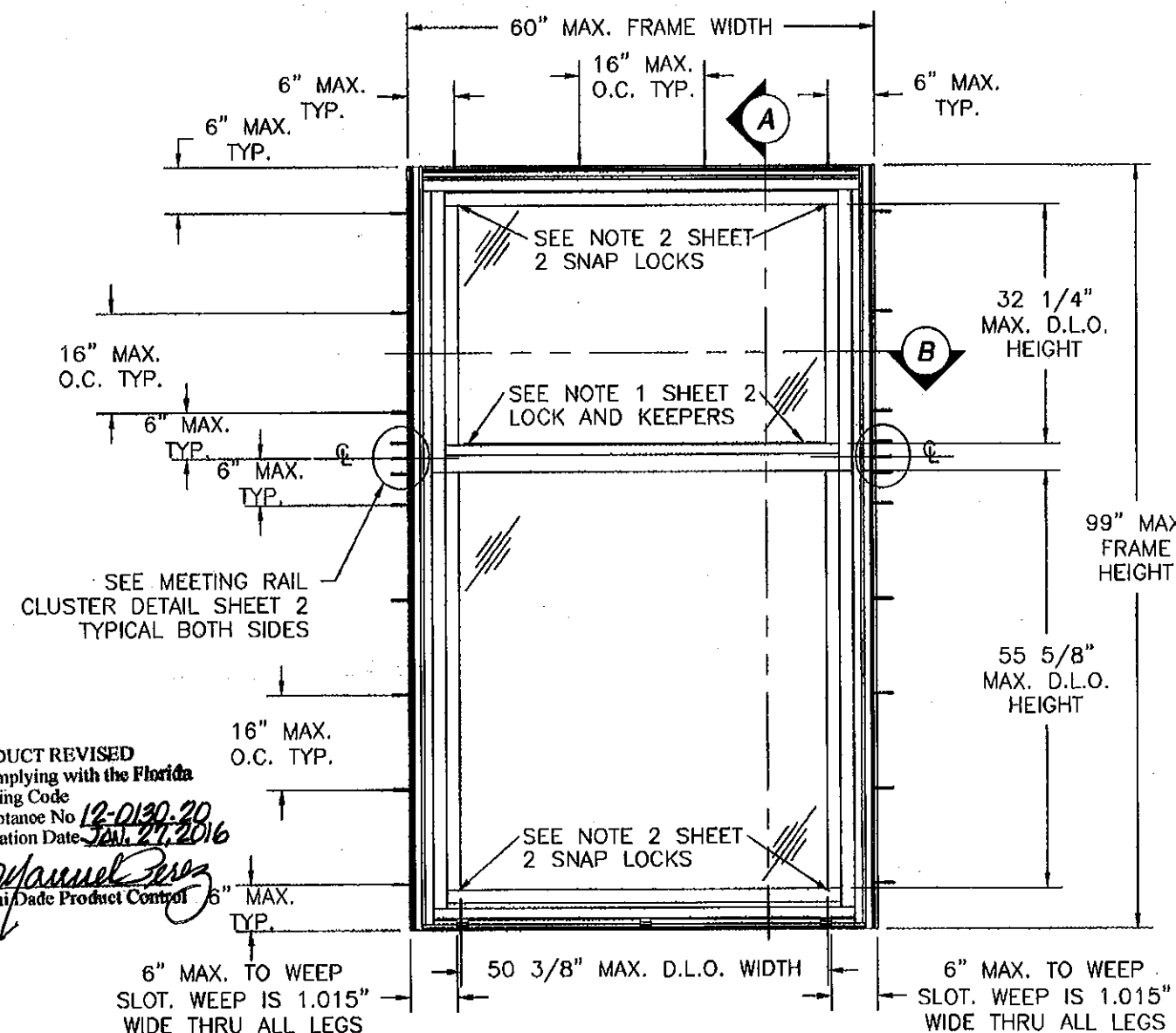
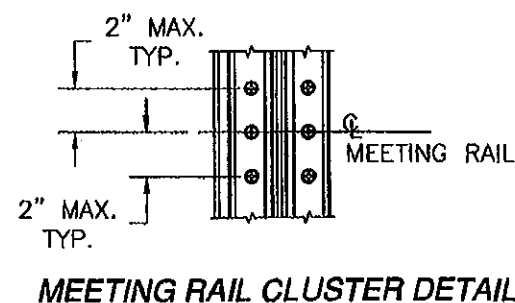
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.



**SERIES 9040 THERMALLY BROKEN ALUMINUM**  
**DOUBLE HUNG ORIEL**  
 EXTERIOR VIEW  
 MAXIMUM UPPER SASH SIZE: 56 7/16" x 62"  
 MAXIMUM LOWER SASH SIZE: 56 7/16" x 38 7/16"

**NOTES:**

- 1) UNITS OVER 37" WIDE USE (2) SASH LOCKS AND KEEPERS LOCATED 7" FROM RAIL END TO CENTER OF LOCKS. UNITS LESS THAN 37" WIDE USE ONE SASH LOCK AND KEEPER LOCATED IN CENTER OF RAIL.
- 2) UNITS USE (2) SNAP LOCKS ON TOP SASH TOP RAIL LOCATED 3" FROM EACH END OF RAIL AND (2) SNAP LOCKS ON BOTTOM SASH BOTTOM RAIL LOCATED 3" FROM EACH END. EACH SNAP LOCK IS 3 1/8" LONG.



PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 12-0130-20  
 Expiration Date: Jan. 27, 2016  
 By: *Manuel Perez*  
 Miami Dade Product Control

**SERIES 9040 THERMALLY BROKEN ALUMINUM**  
**DOUBLE HUNG COTTAGE**  
 EXTERIOR VIEW

MAXIMUM UPPER SASH SIZE: 56 7/16" x 38 7/16"  
 MAXIMUM LOWER SASH SIZE: 56 7/16" x 62"

Approved as complying with the  
 Florida Building Code  
 Date: JAN. 27, 2011  
 By: *Manuel Perez*  
 Miami Dade Product Control

**WinDoor**  
 INCORPORATED

7500 AMSTERDAM DRIVE  
 ORLANDO, FL 32832  
 Phone: 407.481.8400  
 Fax: 407.481.0903  
 www.windoorinc.com

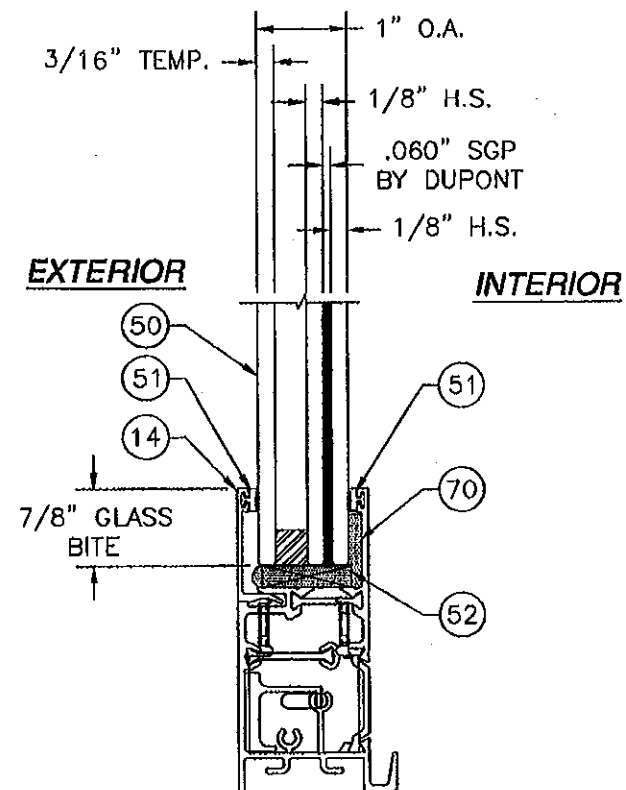
SERIES 9040 THERMALLY BROKEN ALUMINUM  
 DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT  
 ELEVATIONS AND ANCHORING LAYOUTS

DRAWN: TJH DWG NO. 08-00946 REV A  
 SCALE NTS DATE 03/17/10 SHEET 2 OF 10

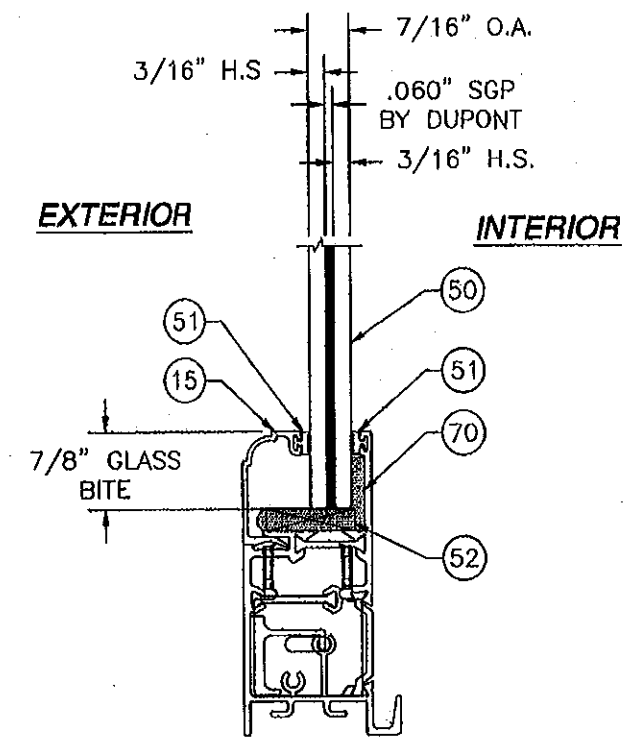
*Manuel Perez*  
 11/15/10  
 Luis R. Lomas P.E.  
 Florida No. 62514

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	904A-FR-1.2	EQUAL LEG FRAME HEAD ASSEMBLY	BONNELL	ALUMINUM 6063-T6
2	904A-FR-3.4	EQUAL LEG FRAME SILL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
3	904A-FR-5.6	EQUAL LEG FRAME JAMB ASSEMBLY	BONNELL	ALUMINUM 6063-T6
4	904A-FR-7.8	FRAME FIXED MEETING RAIL ASS'Y	BONNELL	ALUMINUM 6063-T6
5	904A-SA-1.2	LOWER SASH TOP RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
6	904A-SA-3A.4	LOWER SASH BOTTOM RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
7	904A-SA-5A.6	UPPER SASH TOP RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
8	904A-SA-7.8	UPPER SASH BOTTOM RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
9	904A-SA-9.10	SASH STILE ASSEMBLY	BONNELL	ALUMINUM 6063-T6
10	904X-AC-A	FRAME HEAD INSULATOR	BONNELL	ALUMINUM 6063-T6
11	904X-AC-2	FRAME JAMB INSULATOR	BONNELL	ALUMINUM 6063-T6
12	904X-AC-3	BALANCE COVER	AMSBURY GROUP	
13	904X-AC-4	HEAD COVER	AMSBURY GROUP	
14	904X-AC-8	1" GLASS STOP	BONNELL	ALUMINUM 6063-T6
15	904X-AC-6	7/16" GLASS STOP	BONNELL	ALUMINUM 6063-T6
16	904X-AC-9	FLUSH BOLT	BONNELL	ALUMINUM 6063-T6
17	904X-AC-10	SILL COVER	BONNELL	ALUMINUM 6063-T6
18	904X-AC-11	SASH STOP	BONNELL	ALUMINUM 6063-T6
19	904X-AC-12	SILL SHIM/SCREW BACKUP PLATE	BONNELLE	ALUMINUM 6063-T6
20	904X-AC-13	SILL SCREW CLIP	BONNELL	ALUMINUM 6063-T6
21	904X-AC-14	.625" FACE FLANGE	BONNELL	ALUMINUM 6063-T6
22	904X-AC-15	1.375" FACE FLANGE	BONNELL	ALUMINUM 6063-T6
23	904X-AC-16	SNAP LOCK 3 1/8" WIDE	BONNELL	ALUMINUM 6063-T6
24	904X-AC-17	SCREW BACKUP PLATE		
25	904X-AC-18	SCREEN BOTTOM RAIL		
26	904X-AC-19	SCREEN CENTER RAIL		
27	904X-AC-20	SCREEN STILE		
28	904X-AC-21	SCREEN TOP RAIL		
29	904-HDW-01	SASH GUIDE BRACKET	M-M PLASTICS	GLASS REIN. NYLON
30	904-HDW-02	SASH GUIDE TOP CAP	M-M PLASTICS	NYLON 66
31	904-HDW-03	LIFT HANDLE END CAP	M-M PLASTICS	
32	904-HDW-04	FLUSH BOLT END CAP	M-M PLASTICS	
33	904-HDW-05	FIXED MEETING RAIL RETAINER CLIP	SULLIVAN	
34	904-HDW-06	FLUSH BOLT LOCKING HANDLE	SULLIVAN	
35	904-HDW-07	SCREEN CORNER KEY	SULLIVAN	
36	904-HDW-08	FIXED MEETING RAIL ATTACH BLOCK	M-M PLASTIC	
37	904-HDW-09	FRAME CORNER GASKET	FRANK LOWE	
38	904-HDW-10	SCREEN PLUNGER PIN	JAYSIX, INC.	
39	SK04-0004-000	FLUSH SASH LOCK	INTERLOCK	
40	SK04-2008-000	SASH LOCK BUTTON	INTERLOCK	NYLON 66

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.



**1" IGU LAMINATED  
GLAZING DETAIL**



**7/16" LAMINATED  
GLAZING DETAIL**

BILL OF MATERIALS IS CONTINUED  
ON SHEET 4.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0130.20  
Expiration Date JAN. 27, 2016  
By Manuel Perez  
Miami Dade Product Control

<p>Approved as complying with the Florida Building Code Date: <u>10-07-10</u> By: <u>Manuel Perez</u></p>		<p><b>WinDoor</b> INCORPORATED</p> <p>7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com</p>		<p><i>[Signature]</i> 10/01/10 Luis R. Lomas, P.E. Florida No. 62514</p>
<p>SERIES 9040 THERMALLY BROKEN ALUMINUM DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT BILL OF MATERIALS AND GLAZING DETAILS</p>				
<p>DRAWN: TJH</p>		<p>DWG NO. 08-00946</p>		
<p>SCALE NTS</p>		<p>DATE 03/17/10</p>		
		<p>SHEET 3 OF 10</p>		

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
41	SK04-3002-000	FLUSH LOCK FACE--MOUNT KEEPER	INTERLOCK	
42	ULTRALIFT	SPIRAL BALANCE	CALDWELL	
43	21B181	BALANCE CARRIER	CALDWELL	
44	21B172	BALANCE CARRIER BRACKET	CALDWELL	
45	LCS068-N5	WEEP COVER WITH FLAP	LCS MOLD.	
46	FD4040S	SCREEN/SNAP LOCK SPRING	FLA. SCREEN	
47	AI-174C-L/R	SCREEN PLUNGER PULL HANDLE-WHT	STRY-BUC	
48	AI-174L-L/R	SCREEN PLUNGER PULL HANDLE-BLK	STRY-BUC	
49	5-81	SCREEN PLUNGER SPRING	STRYBUC/BES	
50		LARGE MISSILE IMPACT GLASS		
51	GS-VN-07A	.090" GLAZING BUMPER	TEAM PLASTICS	VINYL
52	TP990	GLASS SETTING BLOCK		RUBBER
53		1/8" x 1/4" STRIP	FRANK LOWE	CLOSED CELL FOAM
54		1" x 1" INSULATOR	H-O PRODS.	CLOSED CELL FOAM
55	QEZ 447-1	Q-LON FLAP SEAL	SCHLEGEL	FOAM
56		.187" BACK x .270" H.D. FIN PILE		
57		.187" x BACK .200" H.D. FIN PILE		
58		#14 x 1 1/2" PH PAN HEAD SMS		
59		#8 x 1 3/4" PH PAN HEAD SMS		
60		#8 x 1 1/2" PH TRUSS HEAD SMS		
61		#8 x 3/4" PH PAN HEAD SMS		
62		#10 x 1 1/4" PH TRUSS HEAD SMS		
63		#10 x 2" PH PAN HEAD SMS		
64		#8 x 1" PH FLAT HEAD SMS		
65		#6 x 3/4" PH FLAT HEAD SMS		
66		#8 x 3/4" PH FLAT HEAD SMS		
67		#6 x 3/8" PH PAN HEAD SMS		
68		#6 x 1/2" PH FLAT HEAD SMS		
69		#6 x 2" PH PAN HEAD SMS		
70	SIKAFLEX 552	HIGH-STRENGTH ADHESIVE	SIKA CORP.	SILANE POLYMER
71		FIN PILE PAD 1.688" x 1.75" x .5"		
72	904-HDW-11	BALANCE TAKEOUT CLIP	SULLIVAN	
73		#10 x 1/2" PH FLAT HEAD SMS		
74	904-HDW-04	SASH GUIDE TOP CAP SCREW COVER	M-M PLASTICS	
75		#8 x 3/4" PH TRUSS HEAD SMS		
76		#8 x 1/2" PH PAN HEAD TEK SCREW		
77		.188" DIA. x 1.25" ROLL PIN	MSC SUPPLY	STAINLESS STEEL
78		#14 x 1 1/4" PH PAN HEAD SMS		
79	279200	18.6mm STRUT	TECHNOFORM US	POLYIMIDE 66
80	279800	30mm STRUT	TECHNOFORM US	POLYIMIDE 66

BILL OF MATERIAL  
CONTINUED FROM SHEET 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
81	279400	20mm STRUT	TECHNOFORM US	POLYIMIDE 66
82	279500	20mm STRUT	TECHNOFORM US	POLYIMIDE 66
83	279600	24mm STRUT	TECHNOFORM US	POLYIMIDE 66

#### FRAME CONSTRUCTION:

FRAME IS A BUTT CORNER CONSTRUCTION. HEAD AND SILL ARE ATTACHED TO JAMBS WITH (4) #8 x 3/4" PPH SMS AT EACH CORNER.

FIXED MEETING RAIL ATTACHMENT BLOCK IS ATTACHED TO FIXED MEETING RAIL RETAINER CLIP WITH (2) #8 x 3/4" PPH SMS. FIXED MEETING RAIL IS SLIPPED OVER FIXED MEETING RAIL BLOCK AND ATTACHED WITH (1) #8 x 3/4" SMS AT EACH SIDE. FIXED MEETING RAIL BLOCK IS ATTACHED TO JAMB INSULATOR WITH (3) #10 x 2" PPH SMS AT EACH END. JAMB INSULATOR IS ATTACHED TO JAMB WITH (4) #14 x 1 1/2" PPH SMS AT EACH END.

#### SASH CONSTRUCTION:

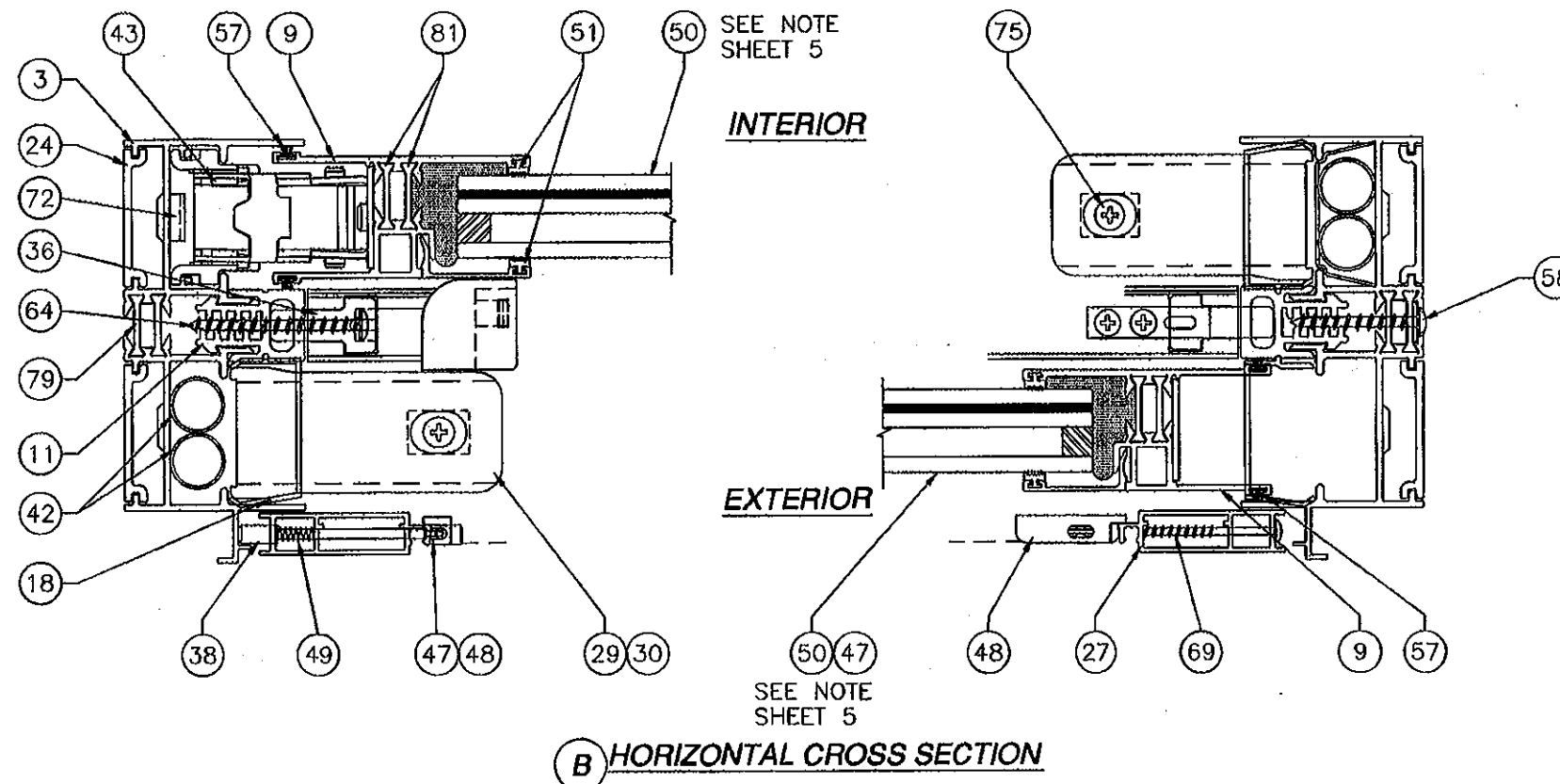
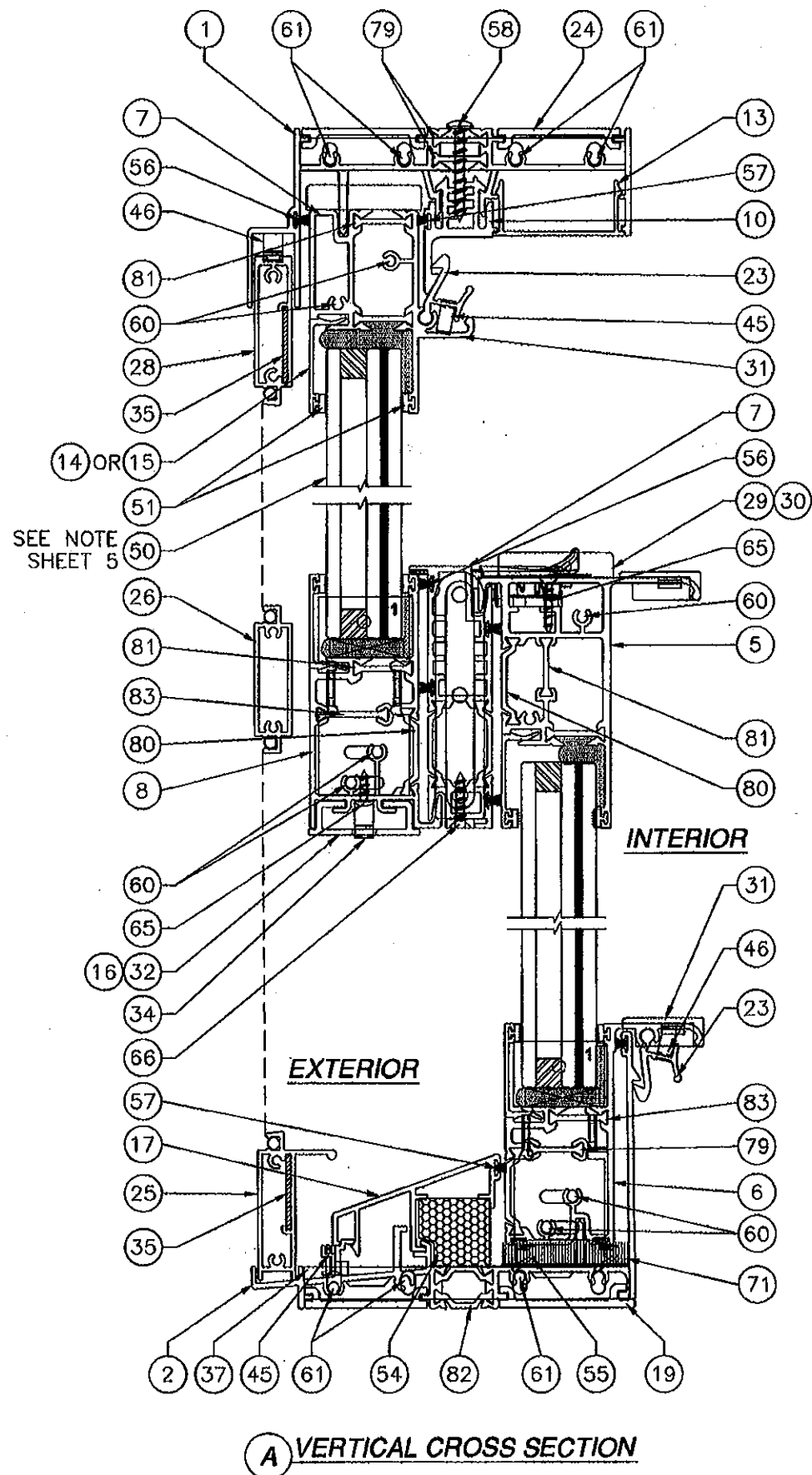
BOTH UPPER AND LOWER SASH ARE BUTT CORNER CONSTRUCTION. EACH CORNER IS SCREWED TOGETHER WITH (2) #8 PHILLIP TRUSS HEAD SMS.

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<p>SERIES 9040 THERMALLY BROKEN ALUMINUM DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT BILL OF MATERIALS</p>			
<p>DRAWN: TJH</p>		<p>DWG NO. 08-00946</p>	
<p>SCALE NTS</p>		<p>DATE 03/17/10</p>	
		<p>SHEET 4 OF 10</p>	

Manuel Perez  
10/14/10  
R.L.  
Luis R. Thomas P.E.  
Florida No. 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.



NOTE:  
CROSS SECTIONS SHOWN WITH 1" IGU  
LAMINATED GLASS. 7/16" LAMINATED GLASS  
IS ALSO APPROVED. SEE APPROVED GLAZING  
DETAILS ON SHEET 3.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0130-20  
Expiration Date Jan. 27, 2016  
By *Mmanuel Perez*  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date *JAN 27 2011*  
NGA *16-0719-12*  
Miami Dade Product Control  
By *Mmanuel Perez*

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

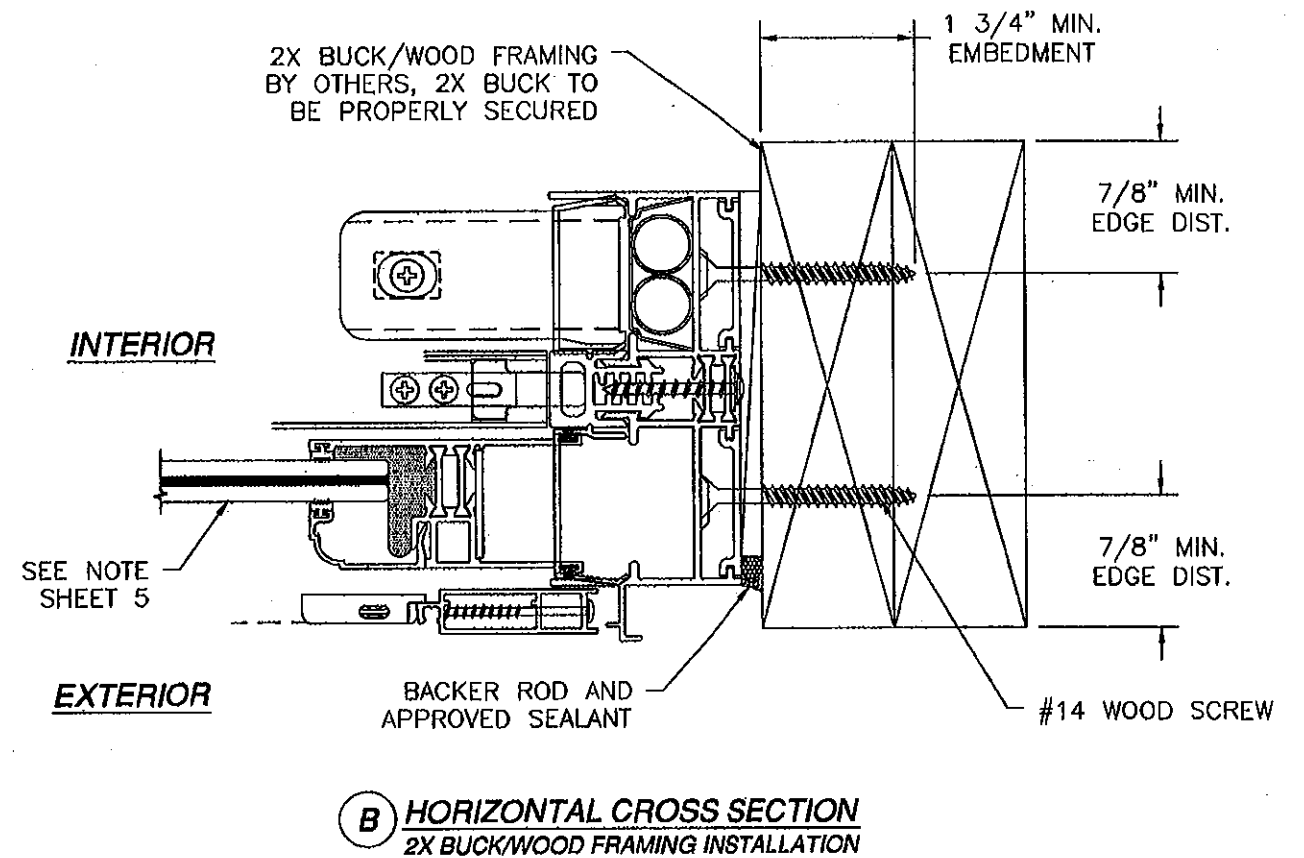
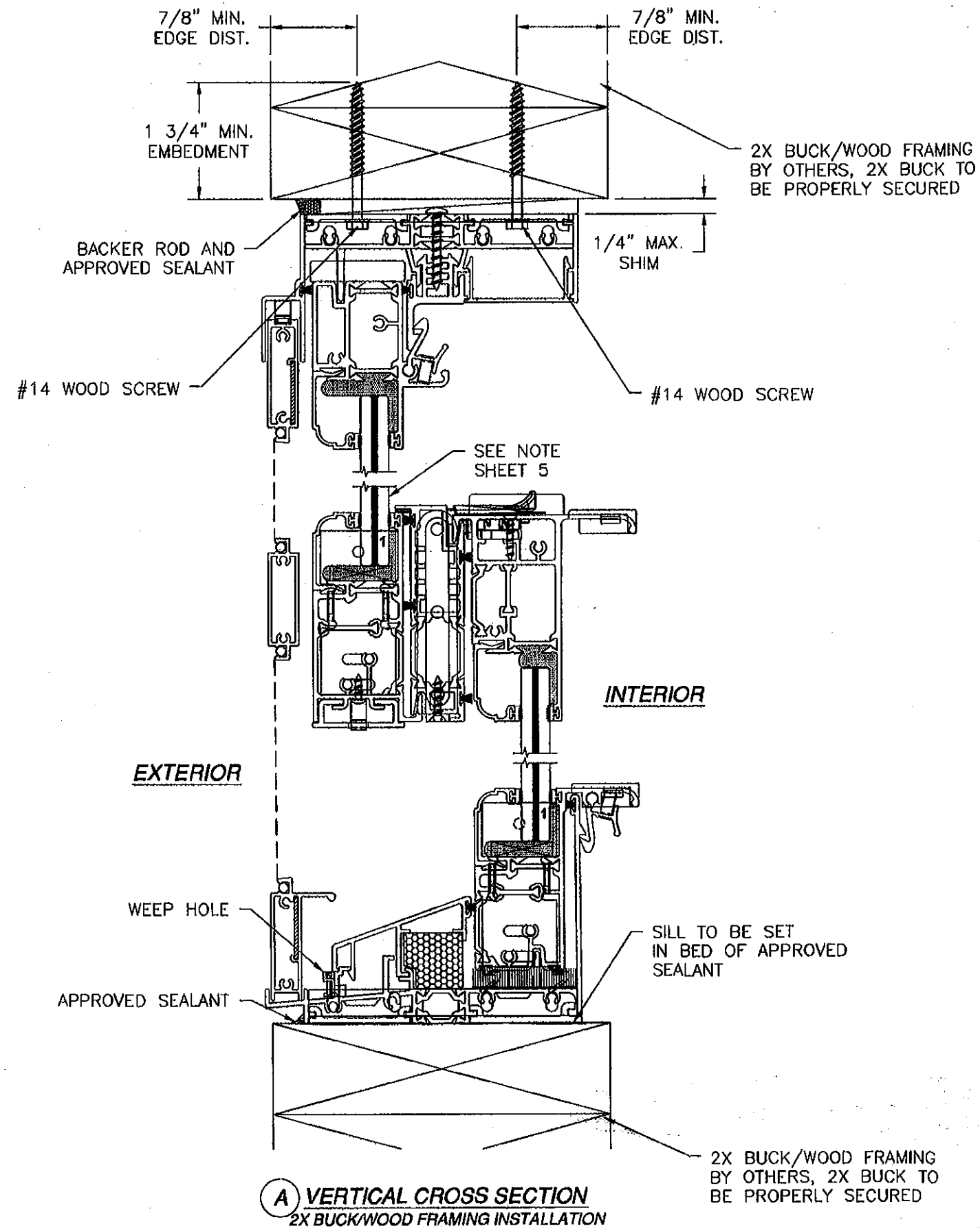
SERIES 9040 THERMALLY BROKEN ALUMINUM  
DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT  
CROSS SECTIONS

DRAWN: TJH	DWG NO. 08-00946	REV A
SCALE NTS	DATE 03/17/10	SHEET 5 OF 10

*Luis R. Lamas*  
11/21/10  
Luis R. Lamas P.E.  
Florida No. 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.



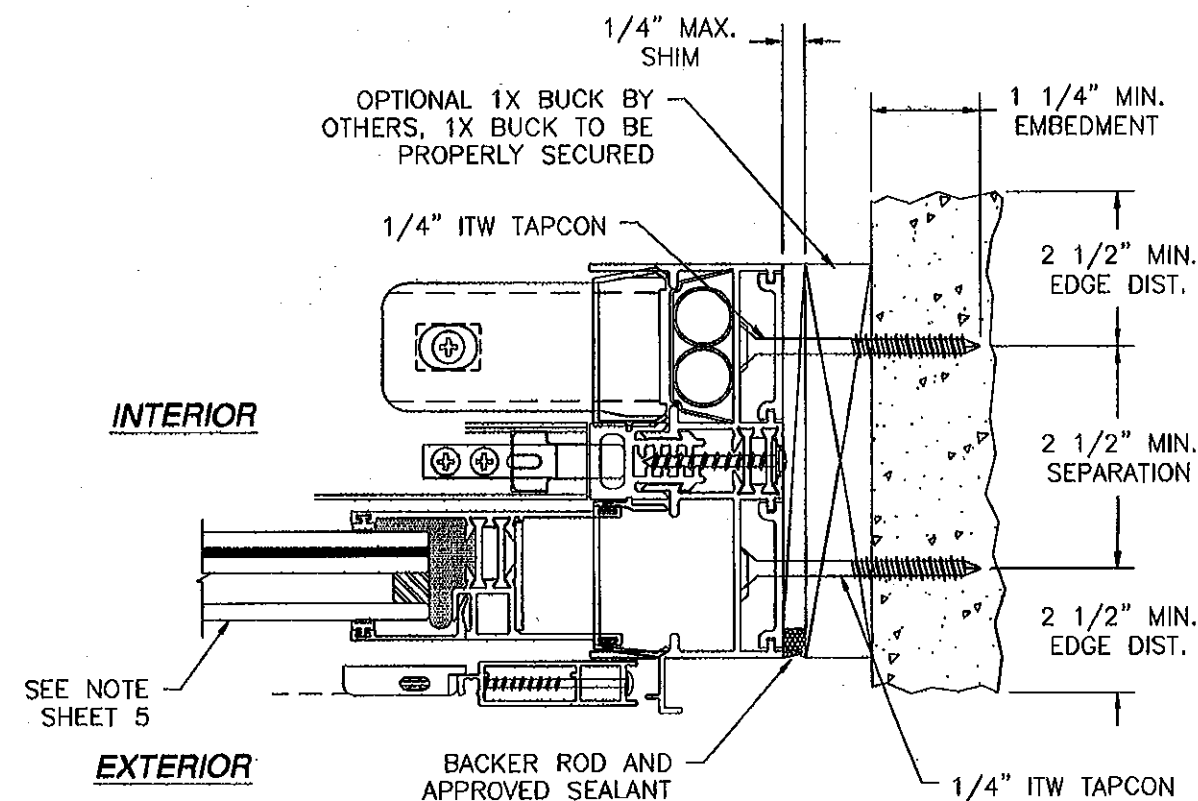
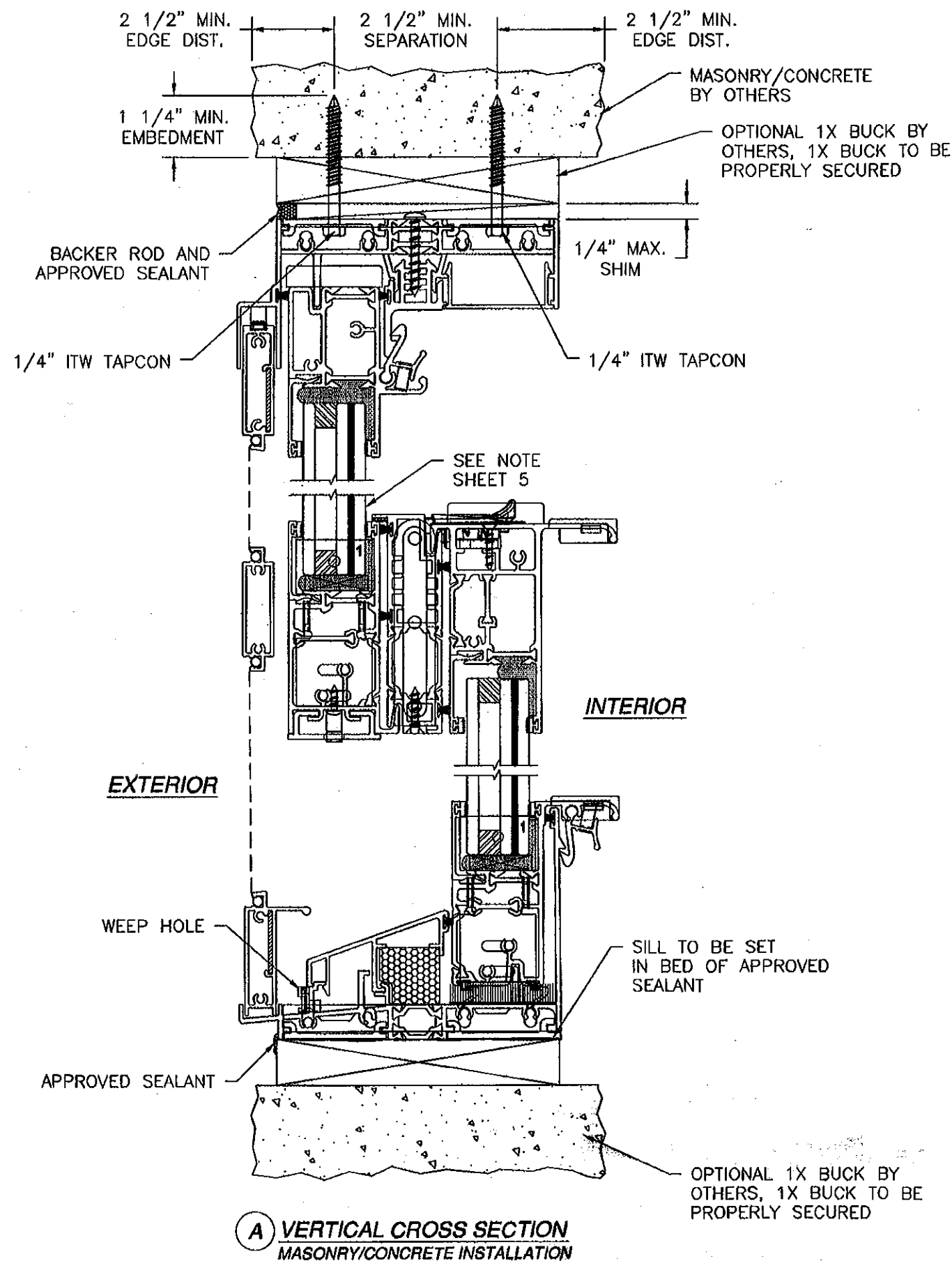
PRODUCT REVISED  
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Building Code  
Acceptance No. 12-0130-20  
Expiration Date JAN. 27, 2016  
By *Manuel Perez*  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date JAN. 27, 2011  
NOA 10-0719-12  
Miami Dade Product Control  
By *Manuel Perez*

<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
SERIES 9040 THERMALLY BROKEN ALUMINUM DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT INSTALLATION DETAILS			
DRAWN: TJH	DWG NO. 08-00946	REV. A	<i>Luis R. Lomas</i> 11/01/10 Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 03/17/10	SHEET 6 OF 10	



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.



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Building Code  
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By *Manuel Perez*  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date JAN. 27, 2011  
NOA# 10-0719.12  
Miami Dade Product Control  
By *Manuel Perez*

**WinDoor**  
INCORPORATED

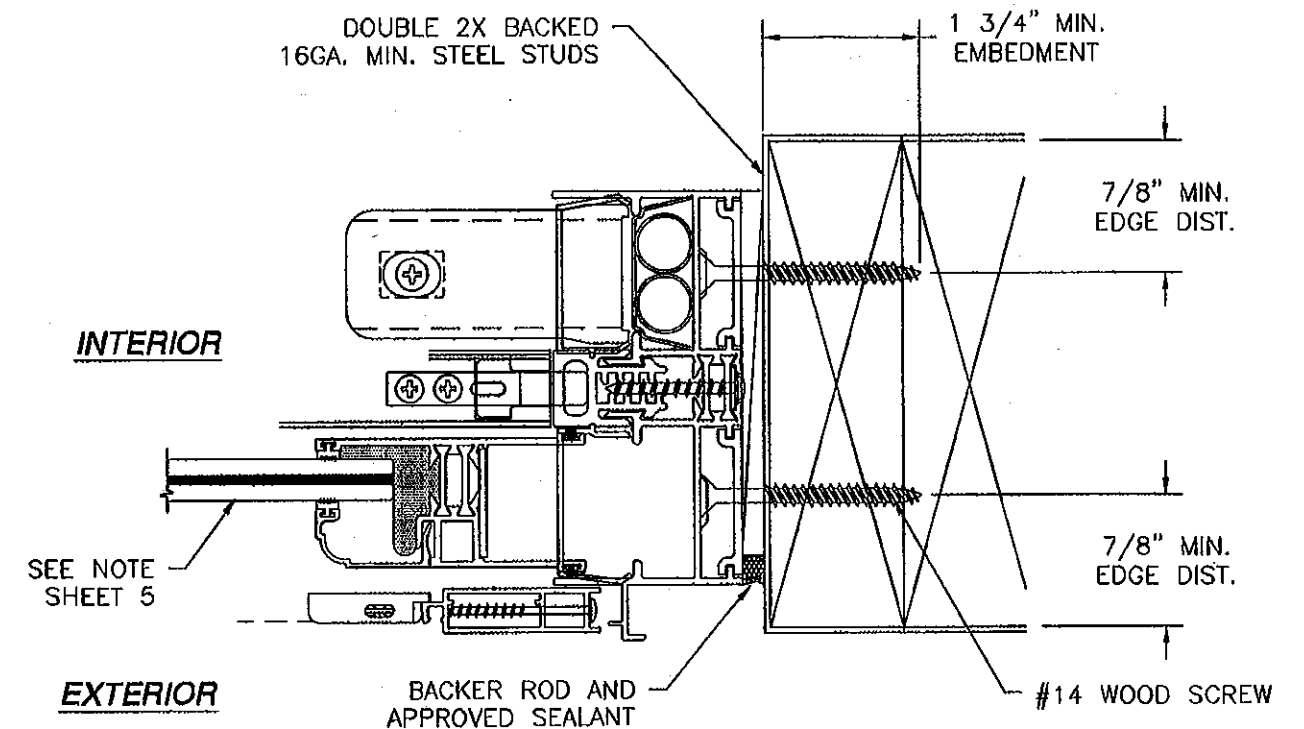
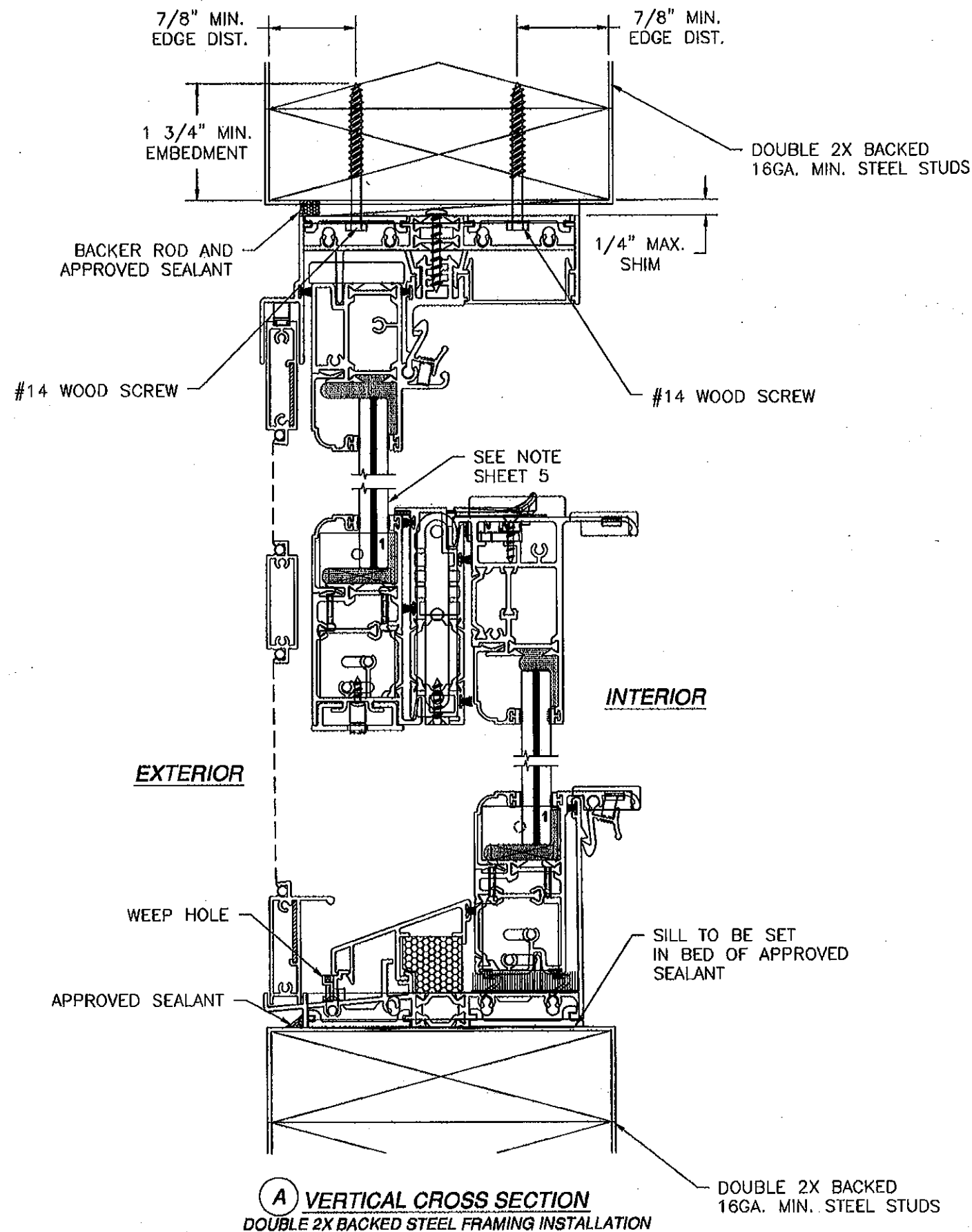
7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
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Fax: 407.481.0505  
www.windoorinc.com

SERIES 9040 THERMALLY BROKEN ALUMINUM  
DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT  
INSTALLATION DETAILS

DRAWN: TJH DWG NO. 08-00946 REV. A  
SCALE NTS DATE 03/17/10 SHEET 7 OF 10

*Manuel Perez*  
Luis R. Lopez, P.E.  
Florida No. 82514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.



PRODUCT REVISED  
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By *Mmanuel Perez*  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date JAN 27, 2011  
NOA 10-0719-12  
Miami Dade Product Control  
Division  
By *Mmanuel Perez*

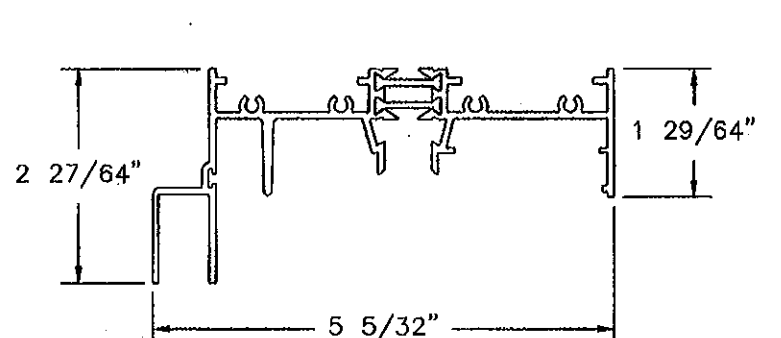
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7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
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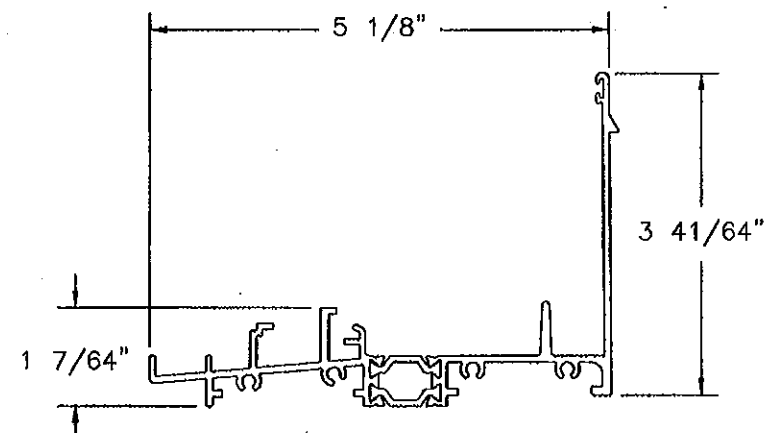
SERIES 9040 THERMALLY BROKEN ALUMINUM  
DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT  
INSTALLATION DETAILS

DRAWN: TJH	DWG NO. 08-00946	REV A
SCALE NTS	DATE 03/17/10	SHEET 8 OF 10

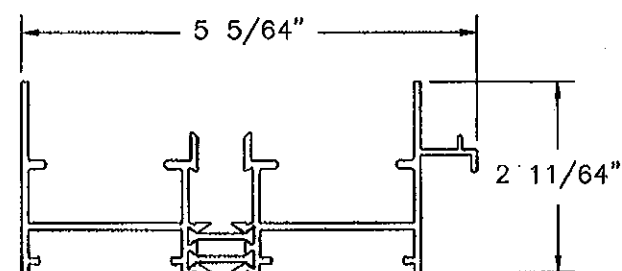
*Luis R. Lomas*  
Luis R. Lomas, P.E.  
Florida No. 62514



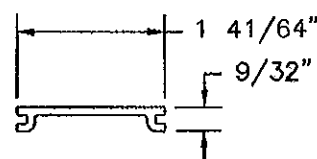
**① EQUAL LEG FRAME HEAD ASSEMBLY**  
ALLUMINUM 6063-T6 .075" THICK  
WITH (2) ITEM #79



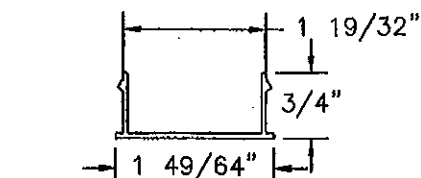
**② EQUAL LEG FRAME SILL ASSEMBLY**  
ALLUMINUM 6063-T6 .075" THICK  
WITH (2) ITEM #82



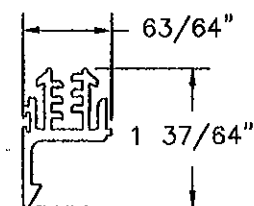
**③ EQUAL LEG FRAME JAMB ASSEMBLY**  
ALLUMINUM 6063-T6 .075" THICK  
WITH (2) ITEM #79



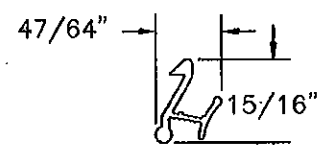
**④ SCREW BACKUP PLATE**  
ALLUMINUM 6063-T6 .090" THICK



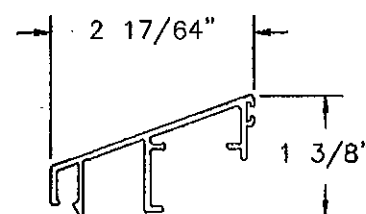
**⑬ HEAD COVER**  
ALLUMINUM 6063-T6 .060" THICK



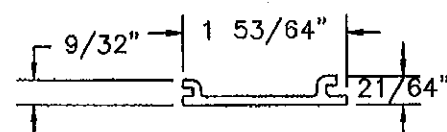
**⑩ FRAME HEAD INSULATOR**  
ALLUMINUM 6063-T6 .125 THICK



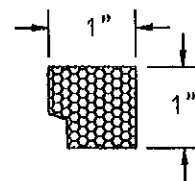
**②③ SNAP LOCK**  
ALLUMINUM 6063-T6 .050" THICK



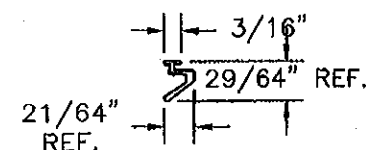
**⑰ SILL COVER**  
ALLUMINUM 6063-T6 .070" THICK



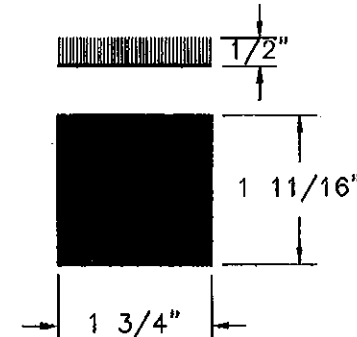
**⑰ SILL SHIM/SCREW  
BACKUP PLATE**  
ALLUMINUM 6063-T6 .100" THICK



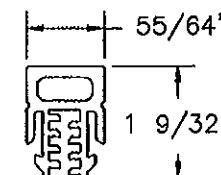
**⑤④ 1" x 1" INSULATOR**  
CLOSED CELL FOAM



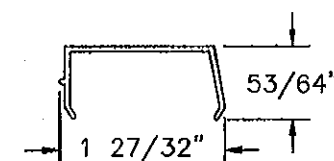
**⑤⑤ Q-LON FLAP SEAL**  
FOAM



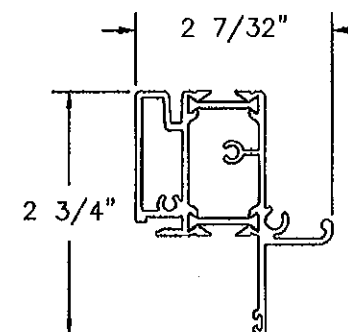
**⑦① FIN PILE PAD**



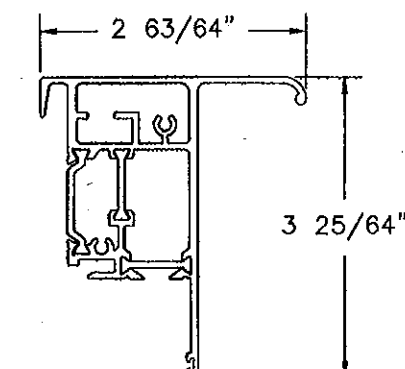
**①① FRAME JAMB INSULATOR**  
ALLUMINUM 6063-T6 .125" THICK



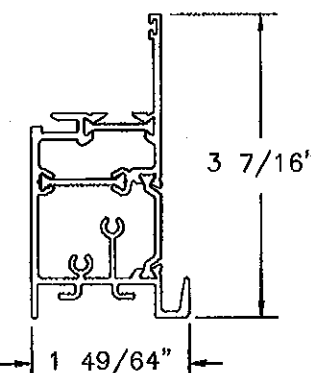
**⑱ SASH STOP**  
ALLUMINUM 6063-T6 .080" THICK  
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0130-20  
Expiration Date: JAN. 27, 2016  
By *Manuel Perez*  
Miami Dade Product Control



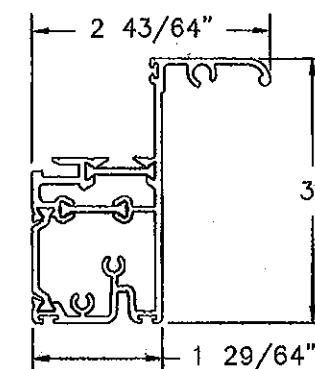
**⑦ UPPER SASH TOP  
RAIL ASSEMBLY**  
ALLUMINUM 6063-T6 .070" THICK  
WITH (2) ITEM #81



**⑤ LOWER SASH TOP  
RAIL ASSEMBLY**  
ALLUMINUM 6063-T6 .100" THICK  
WITH (1) ITEM #80 AND (2) ITEM #81



**⑧ UPPER SASH BOTTOM  
RAIL ASSEMBLY**  
ALLUMINUM 6063-T6 .075" THICK  
WITH (1) ITEM #80 (1) ITEM  
#81 AND (1) ITEM #83



**⑥ LOWER SASH BOTTOM  
RAIL ASSEMBLY**  
ALLUMINUM 6063-T6 .075" THICK  
WITH (1) ITEM #80, (1) ITEM #81  
AND (1) ITEM #79

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.

Approved as complying with the  
Florida Building Code  
Date: JAN. 27, 2016  
By: *Manuel Perez*  
Miami Dade Product Control

**WinDoor  
INCORPORATED**

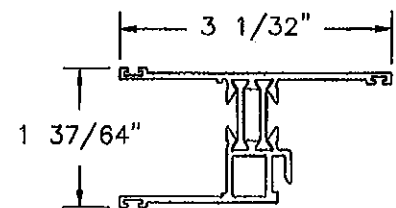
7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

SERIES 9040 THERMALLY BROKEN ALUMINUM  
DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT  
COMPONENTS

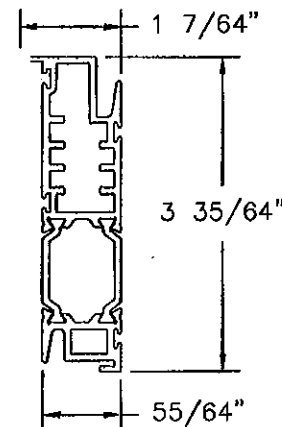
DRAWN: T.JH	DWG NO. 08-00946	REV A
SCALE NTS	DATE 03/17/10	SHEET 9 OF 10

*Manuel Perez*  
10/14/10  
Luis R. Lomas, P.E.  
Florida No. 62514

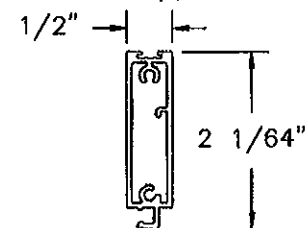
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 13, 2010	10/14/10	R.L.



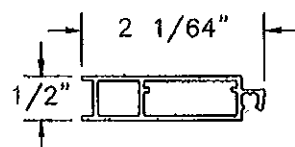
**9 SASH STILE ASSEMBLY**  
ALLUMINUM 6063-T6 .070\" THICK  
WITH (2) ITEM #81



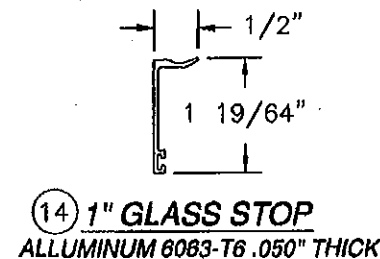
**4 FRAME FIXED MEETING RAIL ASSEMBLY**  
ALLUMINUM 6063-T6 .075\" THICK  
WITH (2) ITEM #80



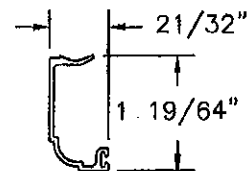
**28 SCREEN TOP RAIL**  
ALLUMINUM 6063-T6 .055\" THICK



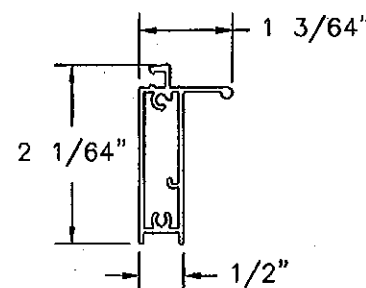
**27 SCREEN STILE**  
ALLUMINUM 6063-T6 .055\" THICK



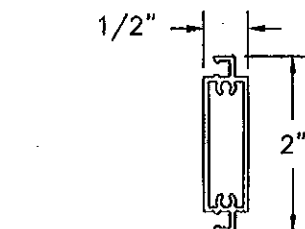
**14 1\" GLASS STOP**  
ALLUMINUM 6063-T6 .050\" THICK



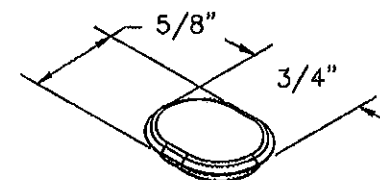
**15 7/16\" GLASS STOP**  
ALLUMINUM 6063-T6 .050\" THICK



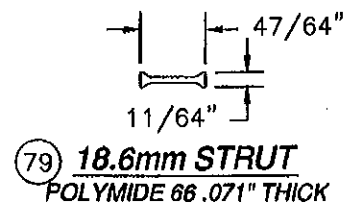
**25 SCREEN BOTTOM RAIL**  
ALLUMINUM 6063-T6 .055\" THICK



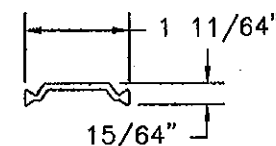
**26 SCREEN CENTER RAIL**  
ALLUMINUM 6063-T6 .055\" THICK



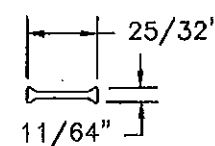
**40 SASH LOCK BUTTON**  
NYLON 66 .150\" THICK



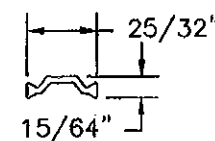
**79 18.6mm STRUT**  
POLYIMIDE 66 .071\" THICK



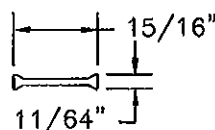
**80 30mm STRUT**  
POLYIMIDE 66 .071\" THICK



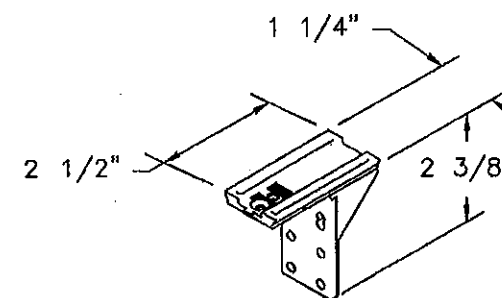
**81 20mm STRUT**  
POLYIMIDE 66 .071\" THICK



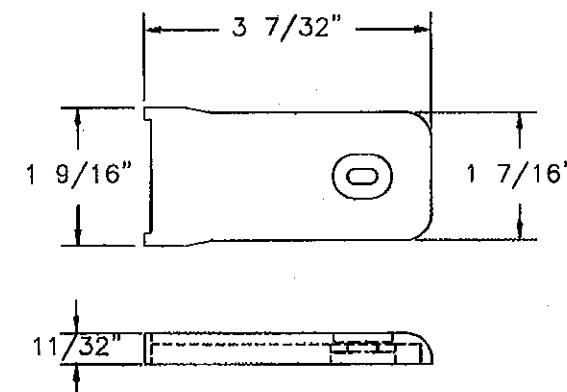
**82 20mm STRUT**  
POLYIMIDE 66 .071\" THICK



**83 24mm STRUT**  
POLYIMIDE 66 .071\" THICK

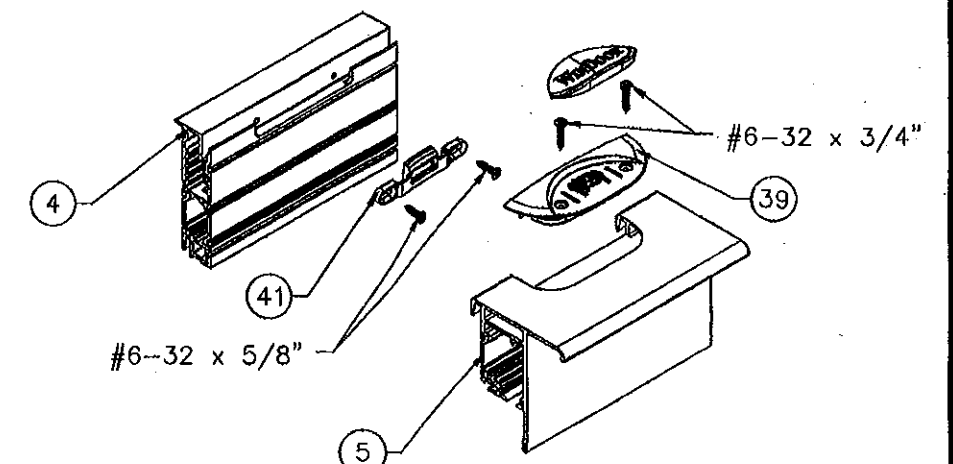


**29 SASH GUIDE BRACKET**  
30% GLASS REINFORCED NYLON

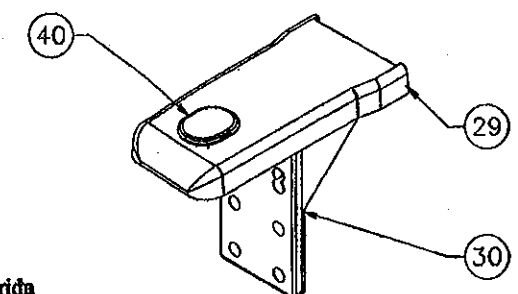


**30 SASH GUIDE BRACKET**  
NYLON 66 .060\" THICK

PRODUCT REVISED  
as complying with the Florida  
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Acceptance No. 12-0130.20  
Expiration Date. JAN. 27, 2016  
By *Maurice Perez*  
Miami Dade Product Control



**SASH LOCK AND KEEPER ASSEMBLY**



**SASH GUIDE ASSEMBLY**

Approved as complying with the Florida Building Code Date: <i>JAN. 27, 2011</i> NOA# <i>10-0719.12</i> Miami Dade Product Control Division By: <i>Maurice Perez</i>		<b>WinDoor</b> INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com		
SERIES 9040 THERMALLY BROKEN ALUMINUM DOUBLE HUNG - 60" x 99" LARGE MISSILE IMPACT COMPONENTS				
DRAWN: TJH	DWG NO. 08-00946	REV A		
SCALE NTS	DATE 03/17/10	SHEET 10 OF 10		